SMIED

#### Revised: 5.6.2024

	Easy Sense ()
Qutani	

#### **APPLICATION**

Specification grade fixture designed for high performance and maximum efficiency. It can be installed in rows either surface or stem mounted to provide excellent, energy efficient general lighting in commercial, retail and institutional environments.

#### FEATURES:

• Die formed, cold-rolled, heavy gauge steel housing construction provides durability and strength.

Project Name: Type:

- 100% acrylic, clear prismatic pattern #12 lens with nominal 0.100" thickness. Steel door frame allows easy lens replacement without tool.
- Unique door frame design delivers a premium extrude appearance.
- Door latches and hinges from either side.
- Standard door is without gasket flush steel with sturdy tee hinges and opposing, rotary action cam latches. Also available fully gasket door.
- Smooth edges for easy handing.
- Finish is high-gloss baked white enamel over rust inhibiting phosphate coating for maximum corrosion resistance.
- Paint after fabrication.

#### MOUNTING:

- · Pendant or surface mounting.
- End to end row mounting or single unit installation for both surface and stem mounting.
- 1'x'4' fixture requires at least 2 stems for stem mounting. 2'x2', 2'x4' fixtures require at least 4
- stems for stem mounting. Compatible with most ceiling types.

## LED:

- High quality array LEDs.
- LM80
- Color Temperature:
- 2700/3000/3500/4000/5000 (K) • Color Rendering Index: > 80 Ra.
- Calculated L70: 122,000 hours
- Reported L70: +60,000 hours

#### ELECTRICAL:

- High power factor electronic driver, operate from a 120 ~ 277 Vac input range, 50 / 60 Hz.
- Features included over voltage protection, surge, short circuit protection and over load protection.
  - Power Factor: typical > 0.95, THD <20, meets</li>
  - Class1 or Class 2 circuit. • Philips Xitanium: 0-10V Dim to 1%(PH).
  - Osram Optotronic: 0-10V Dim to 1%(OS1) or 10%(OS).
- Generic : 0-10V 10% dim. (GR)
  - Operating temperature: -4°F (-20°C) ~ 122°F (50°C).

#### ELCU-200>

- Guarantees emergency lighting remains ON or is turned on when power to the control device is lost.
   Interfaces with fire alarm panel or security system.
- "Watchdog" feature allows emergency loads to be controlled in tandem with normal power loads.
- UL listed for use in emergency circuits.

#### LISTING:

- UL/CUL listed and labeled.
- Listed to UL 1598 and UL 8750.
- Suitable for dry and damp locations.
- CEC Compliant EM (please contact for more information)
- ARRA compliant (optional).
- BAA compliant (optional).
- 7 or 10 years limited warranty. (optional) <sup>4</sup>
- 5 years limited warranty.
- Bluetooth Mesh System available, please contact factory for more information.

#### CONFIGURATIONS

Series	Size	LED	AC Input	Lumen Output (4000K)	Lumen Efficiency (4000K)
		36LED	39.33W	4361.57 lm	110.90 lm/W
	1' x 4'	44LED	46.71W	5584.36 lm	119.55 lm/W
		54LED	57.33W	6404.25 lm	111.71 lm/W
		72LED	78.66W	9339.55 lm	118.73 lm/W
		108LED	114.66W	13713.58 lm	119.60 lm/W
		27LED	29.76W	3598.15 lm	121.27 lm/W
		36LED	39.22W	4536.36 lm	115.66 lm/W
SM	2' x 2'	44LED	46.84W	5384.59 lm	114.96 lm/W
LED	2 2	54LED	57.49W	6608.91 lm	114.96 lm/W
		72LED	78.44W	9072.71 lm	115.66 lm/W
		108LED	114.98W	13216.80 lm	114.95 lm/W
		36LED	39.58W	4850.41 lm	122.55 lm/W
		44LED	47.08W	5798.86 lm	123.17 lm/W
	2' x 4'	54LED	57.79W	7134.53 lm	123.46 lm/W
		72LED	75.50W	9238.20 lm	122.36 lm/W
		108LED	108.0W	13088.52 lm	121.19 lm/W

#### Multiplier сст 3000K 3500K 5000K 1X4 0.9502 0.9837 1.0173 1.0119 2X2 0.9891 0.9951 2X4 0.9809 0.9980 1.0030

#### OUTPUT CURRENT

		Bi-Level		Tri-Level (D	Default)
SW1	SW2	Config Range	Default	Config Range	Default
Close	Open	10% - 70%	40%	10% - 70%	30%
Open	Close	10% - 70%	40%	10% - 70%	70%
Close	Close	100%	100%	100%	100%
Open	Open	0%	0%	0%	0%

1



# LED SURFACE MOUNT TROFFER

#### ORDERING INFORMATION

EXAMPLE: SM-24-36LED-40K-UNV-AB

MODEL	S	IZE	L	ED	0	OLOR TEMP.		EFFICACY		CRI
SM	14 22 24	1' x 4' 2' x 2' 2' x 4'	27LED 36LED 44LED 54LED 72LED 108LED	36W LED 44W LED 54W LED 72W LED	-3 -3 -4 -5	7K         2700K <sup>®</sup> 0K         3000K           5K         3500K           0K         4000K (Std.)           500K         5000K	(Blank) HE	Standard High Efficacy	(Bla	nk) 80+ CRI C9 90+ CRI <sup>9</sup>
	TRI	И ТҮРЕ				DIFFU	SER		\	OLTAGE
(Blank) SB FB FN FW RB RN RW	Regressed Alu	lack m, Black m, Natural	al		(Blank) A12125 P12125 A19 P1 P3 WA08 WA125	Pattern #12 Acrylic Lens Pattern #12 Acrylic Lens Pattern #12 Polycarbon Pattern #19 Acrylic Lens 5/8"x5/8"x7/16" Deep Sp 3/4"x3/4"x1/2" Deep Sp White Acrylic 0.08" Thic White Acrylic 0.125" Thi	s 0.125 " Thick ate Lens 0.125" Th s 0.156" Thick becular Plastic Lou ecular Plastic Louv k	ver	UNV 120 277 347 480	120-277V (Std.) 120V 277V 347V <sup>2</sup> 480V <sup>2</sup>

AME	B Anti-Microbial Coating (Matte Skye White)	FR12	<ul> <li>Frosted Acrylic Lens, Pattern#12, 0.100" thick</li> <li>Frosted Acrylic Lens, Pattern#12, 0.125" thick</li> <li>3/4" x 3/4" x 3/8" Deep Specular Plastic Louver with overlay</li> </ul>				
LED DRIVER					OPTIONS		
GR         Generic, 0-10V 10% dim (Std.) 7           DM1         Generic 0-10V 1% dim           PH         Philips Xitanium, 0-10V 1% dim 7           OS         Osram Optotronic. 0-10V 10% dim 7		AB EMG8 EMG15 EMG20	AB Switching 1296 LUMEN EM Battery Backup (CEC Compliant EM) <sup>6, 12</sup> 2430 LUMEN EM Battery Backup (CEC Compliant EM) <sup>6, 12</sup> 3240 LUMEN EM Battery Backup (CEC Compliant EM) <sup>6, 12</sup>				

OS	Osram Optotronic, 0-10V 10% dim 7	EMG20	3240 LUMEN EM Battery Backup (CEC Compliant EM) 6, 12
OS1	Osram Optotronic, 0-10V 1% dim 7	EMG25	4050 LUMEN EM Battery Backup (CEC Compliant EM) 6, 12
SD40	40%/100% Bi-Level Step dim (PH only)	ELCU-200	Fail-to-on Emergency lighting, UL924 10
SDXX	XX% / 100% Bi-Level Step dim (Specify XX : 10% ~ 70%) (PH only)	GTD	Bodine Generator Transfer Device
TDM	Triac Dim. (120V only)	GTD10DIM	Bodine Generator Transfer Device (0-10VDC Dimmer Override)
TD30/70	30% / 70% / 100% Tri-Level Step dim (PH only)	GLR	Fast Blow Fuse 1
TDXX/YY	XX% / YY% / 100% Tri-Level Step dim (Specify XX, YY : 10% ~ 70%) (PH only)	GMF	Slow Blow Fuse 1
ES566	eldoLED SOLOdrive Natural Dimming to dark, 0-10V, 100% ~ 0.1% dim	SSH	Swivel Stem Hanger
EC	eldoLED ECOdrive 0-10V natural dim to 1% (Hybrid HydraDrive)	DSH	Double Stem Hanger
LDE1	Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology,	AMS	Bluetooth Mesh Wireless Sensor. Occupancy/Daylight/0-10V Dimming
	100% ~ 1% dim	DPMS	Daylight Dimming Photo Sensor (0-10 VDC Control) 14
ELV	ELV compatible (reverse-phase or trailing-edge), (120V only)	SO	Dimming Wires connected to Sensor Only (available option on FS-205 non-Blue-
PHSR	Philips Xitanium Sensor-Ready, Dali 5%~100% dim.		tooth AMS sensor only) 5
PHDL	Philips Xitanium DALI driver, Dim to 5%	LSR-301-S	Setup Remote Control for DPMS
ED560	eldoLED LightShape DALI dim to dark, 0.1% ~ 100%	LSR-301-P	Occupant Remote Control for DPMS
DMX	DMX512 control system (Only available with RGB+W option)	07W	Optional 7 Years Limited Warranty <sup>4</sup>
DLM		O10W	Optional 10 Years Limited Warranty <sup>4</sup>
LTEA2W	Hi-lume 1% 2-wire LED driver (120V forward phase only)	SLL	Spring-Loaded Latches <sup>13</sup>
🚯 BLT	Bluetooth Mesh System (contact factory for more information)	HC403	Microwave bi-level Occupancy Sensor, adjustable via DIP switch <sup>15</sup>
		ARRA	Assembled in USA for Buy American Act
		BAA	BAA(Buy American Act) and BABA(Build America Buy America) compliant

LIGHTING CONTROL SYSTEM				
	<lutron enabled="" system="" vive=""></lutron>			
LUTRON VIVE	Click Here!			
SNS200C RS-IR	<easysense> EasySense Ceiling-mount occupancy sensing, daylight harvesting and task tuning in one device (Must be ordered with PHSR driver) <sup>11</sup> IR dongle for EasySense control</easysense>			
PPA102S	<u><bluetooth></bluetooth></u> Bluetooth Powerpack (Consult factory for installation location)			

- NOTES: 1. Must specify voltage, not available with 347V.
- 2. Supplied with step down transformer.
- Not available in 1'x4'
   This limited warranty covers electrical parts only and does not apply to labor, equipment lease, or defect from improper installation or operation. (EM battery backup does not included) 5. Dimming wires provided and connected to sensor only, not for dimmer switch.
- (available with AMS and DPMS option)
   Contact factory for other emergency ballast options.
   To find an approved dimmer switch, please see table 1.

8. Available with C9 only.

- 9. Lumen per watt is around 15% less than standard CRI (80+). 10. Shipped separately.
- Shipped separately.
   Please see Compatible Phone list in the separate attachment. If not listed, please order "RS-IR", and follow IR-Dongle user guide and NFC and IR app user's manual. Android users only.
   Must specify voltage, not available with 347V or 480V.
   RB, RN and RW door frames are not available with SLL option.
   Automatic on/off is not available. For automatic on/off, additional occupancy sensor is required to an advect the determined on the

- or a manual on/off switch can be done.
- 15. See Table2 to find factory setting.



# LED SURFACE MOUNT TROFFER

# SM LED

#### SM-14-2G-36LED

	Illuminance at a Di Center Beam fc	stance Beam Wid	**
	Center beamine	Deam wid	ui .
1.78	701 fc 🔺	3.7 ft	3.1 ft
3.3R	186 fc	7.1 ft	6.0 ft
5.0R	81.0 fc	10.8 ft	9.2 ft
6.78	45.1 fc	14.5 ft	12.3 ft
8.3 <del>R</del>	29.4 fc	18.0 ft	15.2 ft
10.0R	20.2 fc	21.7 ft	18.3 ft
-	Vert. Spread: 94.6° Horiz. Spread: 85.0°		

#### SM-14-2G-108LED

	Illuminance at a l Center Beam fc	Distance Beam Wid	th
1.78	2,057 fc 🧹	3.7 ft	3.1 ft
3.3R	546 fc	7.1 ft	6.0 ft
5.0R	238 fc	10.8 ft	9.2 ft
6.7R	132 fc	14.5 ft	12.3 ft
8.3 <del>R</del>	86.3 fc	18.0 ft	15.2 ft
10.0R	59.5 fc	21.7 ft	18.3 ft
	Vert. Spread: 94.6°		

Horiz. Spread: 85.0°

#### SM-22-2G-54LED

	Illuminance at a Center Beam fc	Beam Width		
1.78	1,011 fc 🖌	3.5 ft	3.7 ft	
3.3R	268 fc	6.8 ft	7.2 ft	
5.08	117 fc	10.4 ft	10.9 ft	
6.78	65.1 fc	13.9 ft	14.5 ft	
8.3 <del>R</del>	42.4 fc	17.2 ft	18.0 ft	
10.0R	29.2 fc	20.7 ft	21.7 ft	
	Vert. Spread: 92.0° Horiz. Spread: 94.7°			

#### SM-24-2G-44LED

	Center Beam fc 871 fc	Beam Wid	3.7 ft
.7ft	231 fc	7.2 ft	7.2 ft
3.3R	101 fc	10.9 ft	10.9 ft
	56.1 fc	14.6 ft	14.6 ft
3R	36.6 fc	18.1 ft	18.1 ft
.on	25.2 fc	21.9 ft	21.8 ft

## SM-14-2G-44LED

	Illuminance at a l			
	Center Beam fc	Beam Width		
1.7ft	897 fc 🧹	3.7 ft	3.1 ft	
3.3R	238 fc	7.1 ft	6.0 ft	
5.08	104 fc	10.8 ft	9.2 ft	
6.7ft	57.8 fc	14.5 ft	12.3 ft	
	37.6 fc	18.0 ft	15.2 ft	
8.3R	25.9 fc	21.7 ft	18.3 ft	
	Vert. Spread: 94.6° Horiz. Spread: 85.0°			

#### SM-22-2G-27LED

	Illuminance at a Center Beam fc	Beam Wid	lth
1.78	550 fc 🖌	3.5 ft	3.7 ft
3.3R	146 fc	6.8 ft	7.2 ft
5.08	63.6 fc	10.4 ft	10.9 ft
6.78	35.4 fc	13.9 ft	14.5 ft
8.3 <del>R</del>	23.1 fc	17.2 ft	18.0 ft
10.0R	15.9 fc	20.7 ft	21.7 ft
	Vert. Spread: 92.0° Horiz. Spread: 94.7°		

SM-22-2G-72LED

	Center Beam fc	Beam Wid	th
1.78	1,388 fc 🔺	3.5 ft	3.7 ft
3.3ft	368 fc	6.8 ft	7.2 ft
5.08	160 fc	10.4 ft	10.9 ft
6.7 <del>R</del>	89.3 fc	13.9 ft	14.5 ft
8.3 <del>R</del> -	58.2 fc	17.2 ft	18.0 ft
0.0R	40.1 fc	20.7 ft	21.7 ft

#### SM-24-2G-54LED

	Center Beam fc	Beam Wid	lth
1.78	1,072 fc 🔺	3.7 ft	3.7 ft
3.3ft	284 fc	7.2 ft	7.2 ft
5.08	124 fc	10.9 ft	10.9 ft
6.7 <del>R</del>	69.0 fc	14.6 ft	14.6 ft
8.3 <del>R</del>	45.0 fc	18.1 ft	18.1 ft
0.0R	31.0 fc	21.9 ft	21.8 ft

#### SM-14-2G-54LED

	Illuminance at a D Center Beam fc	<b>istance</b> Beam Wid	th
1.78	1,029 fc 🔺	3.7 ft	3.1 ft
3.3R	273 fc	7.1 ft	6.0 ft
5.0R	119 fc	10.8 ft	9.2 ft
6.78	66.2 fc	14.5 ft	12.3 ft
8.3 <del>R</del>	43.2 fc	18.0 ft	15.2 ft
10.0R	29.7 fc	21.7 ft	18.3 ft
	Vert. Spread: 94.6° Horiz. Spread: 85.0°		

#### SM-22-2G-36LED

	Center Beam fc	Beam Wid	lth
7ft	694 fc 🔺	3.5 ft	3.7 ft
sft -	184 fc	6.8 ft	7.2 ft
DR -	80.2 fc	10.4 ft	10.9 ft
78	44.7 fc	13.9 ft	14.5 ft
38	29.1 fc	17.2 ft	18.0 ft
	20.1 fc	20.7 ft	21.7 ft

Horiz. Spread: 94.7°

#### SM-22-2G-108LED

	Illuminance at a Center Beam fc	Distance Beam Wid	th
1.78	2,022 fc 🖌	3.5 ft	3.7 ft
3.3ft	536 fc	6.8 ft	7.2 ft
5.08	234 fc	10.4 ft	10.9 ft
6.7 <del>R</del>	130 fc	13.9 ft	14.5 ft
8.3 <del>R</del> -	84.8 fc	17.2 ft	18.0 ft
0.0R	58.4 fc	20.7 ft	21.7 ft
	Vert. Spread: 92.0° Horiz. Spread: 94.7°		

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#### SM-24-2G-72LED

	Center Beam fc	Beam Wid	ith
1.7R	1,388 fc 🔺	3.7 ft	3.7 ft
3R -	368 fc	7.2 ft	7.2 ft
08	160 fc	10.9 ft	10.9 ft
78	89.4 fc	14.6 ft	14.6 ft
3 <del>R</del> -	58.2 fc	18.1 ft	18.1 ft
	40.1 fc	21.9 ft	21.8 ft

#### SM-14-2G-72LED

	Illuminance at a Di Center Beam fc	Beam Wid	lth
1.78	1,401 fc 🔺	3.7 ft	3.1 ft
3.3ft	372 fc	7.1 ft	6.0 ft
5.08	162 fc	10.8 ft	9.2 ft
6.7 <del>R</del>	90.2 fc	14.5 ft	12.3 ft
8.3 <del>R</del>	58.8 fc	18.0 ft	15.2 ft
10.0R	40.5 fc	21.7 ft	18.3 ft
	Vert. Spread: 94.6° Horiz. Spread: 85.0°		

#### SM-22-2G-44LED

	Illuminance at a D Center Beam fc	<mark>istance</mark> Beam Wid	th
1.78	828 fc 🔺	3.5 ft	3.7 ft
3.3R	220 fc	6.8 ft	7.2 ft
5.0R	95.7 fc	10.4 ft	10.9 ft
6.7 <del>R</del>	53.3 fc	13.9 ft	14.5 ft
8.3 <del>R</del> -	34.7 fc	17.2 ft	18.0 ft
10.0R	23.9 fc	20.7 ft	21.7 ft
	Vert. Spread: 92.0° Horiz. Spread: 94.7°		

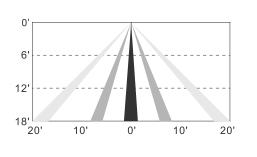
#### SM-24-2G-36LED

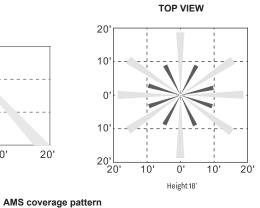
	Illuminance at a		
	Center Beam fc	Beam Wid	:h
1.7R	729 fc	3.7 ft	3.7 ft
3.3R	193 fc	7.2 ft	7.2 ft
5.08	84.3 fc	10.9 ft	10.9 ft
6.7 <del>R</del>	46.9 fc	14.6 ft	14.6 ft
8.3 <del>R</del>	30.6 fc	18.1 ft	18.1 ft
10.0R	21.1 fc	21.9 ft	21.8 ft
	Vert. Spread: 95.1° Horiz. Spread: 94.8°		

#### SM-24-2G-108LED

•	2,103 fc 🔺	3.7 ft	3.7 ft
à 📃	558 fc	7.2 ft	7.2 f
	243 fc	10.9 ft	10.9 f
	135 fc	14.6 ft	14.6 f
	88.2 fc	18.1 ft	18.1 f
	60.8 fc	21.9 ft	21.8 f

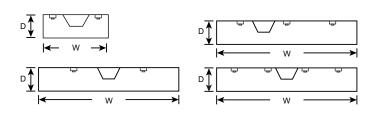
## SIDE VIEW





3





Specifications: 1'x4' Length: 48 (1218) Width: 12 (304) Depth: 3-7/8 (99) Weight: 16.6 lbs (7.53 kg) Specifications: 2'x2' Length: 24 (608) Width: 24 (608) Depth: 3-7/8 (99) Weight: 16.16 lbs (7.33 kg)

Specifications: 2'x4' Length: 48 (1218) Width: 24 (608) Depth: 3-7/8 (99) Weight: 26.3 lbs (11.93 kg)

All dimensions are in inches (millimeters).

#### COMPATIBLE DIMMER SWITCH (TABLE 1)

Model #	Brand		Compatible Dimmer Switch
		<leviton></leviton>	IllumaTech IP7 series
(Blank)	-	<lutron></lutron>	Visit www.lutron.com/advance for a list of dimmers (Mark VII) that will work with this driver.
		<philips></philips>	Sunrise : SR1200ZTUNV
		<busch-jaeger></busch-jaeger>	2112U-101
		<jung></jung>	240-10
		<leviton></leviton>	IllumaTech - IP710-DLX
		<lightoller controls=""></lightoller>	ZP600FAM120
		<merten></merten>	5729
		<pass &="" seymour=""></pass>	CD4FB-W
		<wattstopper></wattstopper>	DCLV1
		<sensor switch=""></sensor>	nIO EZ
ES566	eldoLED SOLOdrive	<synergy></synergy>	ISD BC
		<abb></abb>	SD/S 2.16.1
		<lutron></lutron>	Nova T: NTFTV Diva - DVTV-xx, NFTV GRAFIK Eye: GRX-TVI w GRX3503 Energy Savr Node: QSN-4T16-S TVM2 Module
			<crestron></crestron>
LDE1	Lutron Hi-lume 1% EcoSystem	<lutron></lutron>	PowPak Dimming Modules: RMJ-ECO32-DV-B, FCJ/FCJS-ECO <sup>1, 2</sup> Energi Savr Node (120V only): QSN-1ECO-S, QSN-2ECO-S GRAFIK Eye QS/Homeworks QS control unit (120V only): QSGRJE(wireless) QSGRE Quantum Hub (120V only): QP22C/4C/6C/8C Homeworks QS/myRoom Plus power module (120V only): LQSE-2ECO-D
TDM	KEYSTONE	<lutron></lutron>	Diva DV-600P, SkyLark S-600P, Ariadni AY-600P, Ariadni TG-603P, Maestro MA-600 (Digital), Diva CFL/LED DVCL-153P, Satin Colors DVSC-600P-SW
		<leviton></leviton>	6641, IllumaTech IPI06-1LX, ToggleTouch TGI06-1LW (Digital)
ELV	KEYSTONE	<lutron></lutron>	MAELV-600BL (Digital), DVELV-300P, SkyLark SELV-300P
LTEA2W	Lutron Hi-lume 2-wire (120V forward voltage only)	<lutron></lutron>	Visit http://www.lutron.com/TechnicalDocumentLibrary/369543_ENG.pdf for a list of compatible dimmer switches.

NOTES:

All devices connected to one FCJ/FCJS-ECO will be controlled together. Devices will dim to the same level as the result of a control command. For more detail on adjusting low-end light level refer to Application Note#556 at www.lutron.com.
 For the Line/Hot (L/H) terminal on the driver, it is preferred not to use the switched hot (red) wire from the control but rather the hot wire directly from the power source.

#### HC403 FACTORY SETTING (TABLE 2)

Detection Area	100%
Hold-time	5 sec
Daylight sensor	Disable
Stand-by period (tri-level control)	10 sec
Stand-by dimming level	10%

\* See a separate attachment to find more setting options.

